

***Analysis of the extent of Glacier
coverage in the World Network
of Biosphere Reserves***

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How important are
Glaciers in Mountain
Biosphere Reserves?

2025 International Year of
Glaciers' Preservation



© Du Xiaohong

How important are Glaciers in Mountain Biosphere Reserves?



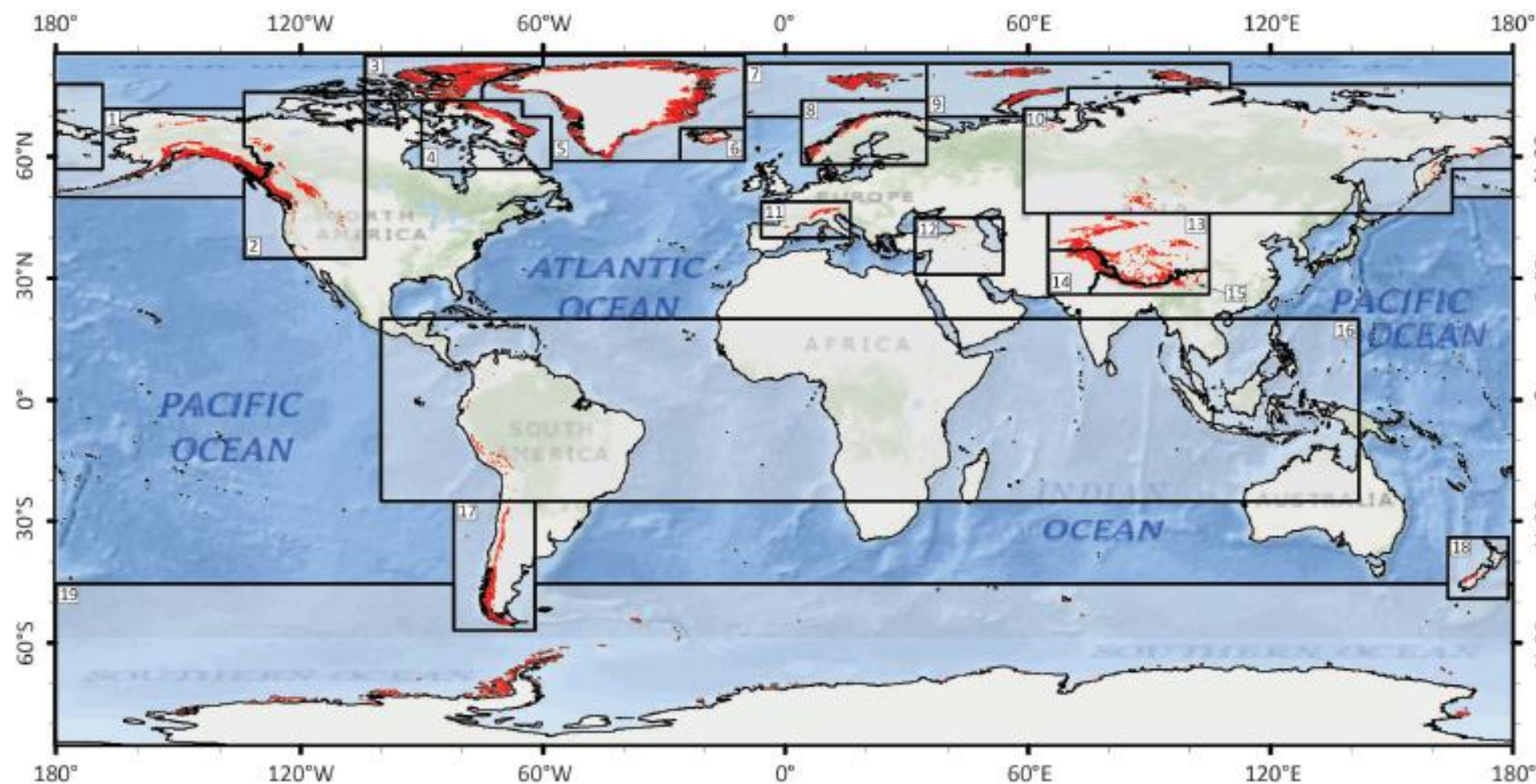
84 Biosphere Reserves

- Africa: 9
- Arabic States: 3
- Asia and Pacific : 20
- Europa + North America: 42 (40 + 2)
- Latin America and Caribbean countries (LAC): 10

--> 6 transboundary or transcontinental

Randolf Glacier Inventory 7.0

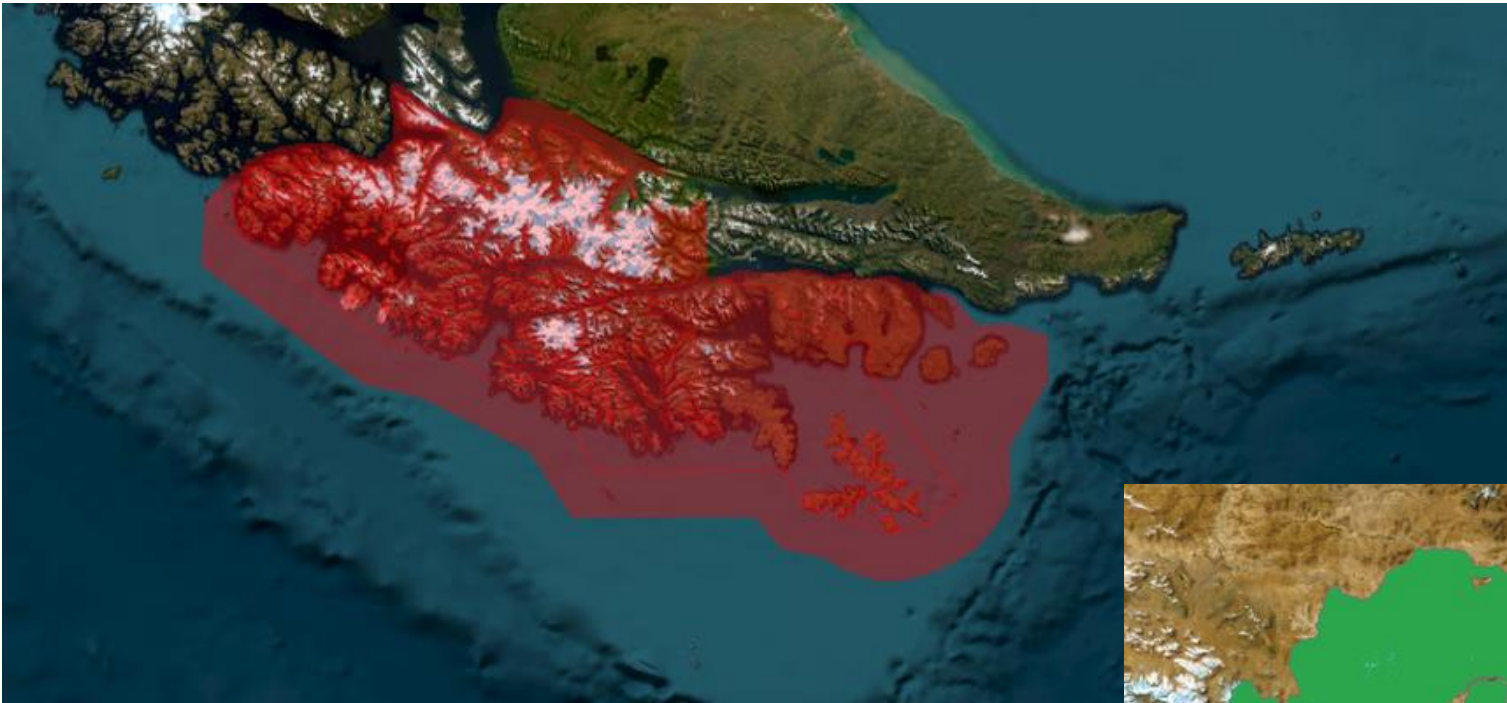
Complete inventory of glacier outlines (excluding the ice sheets in Greenland and Antarctica)



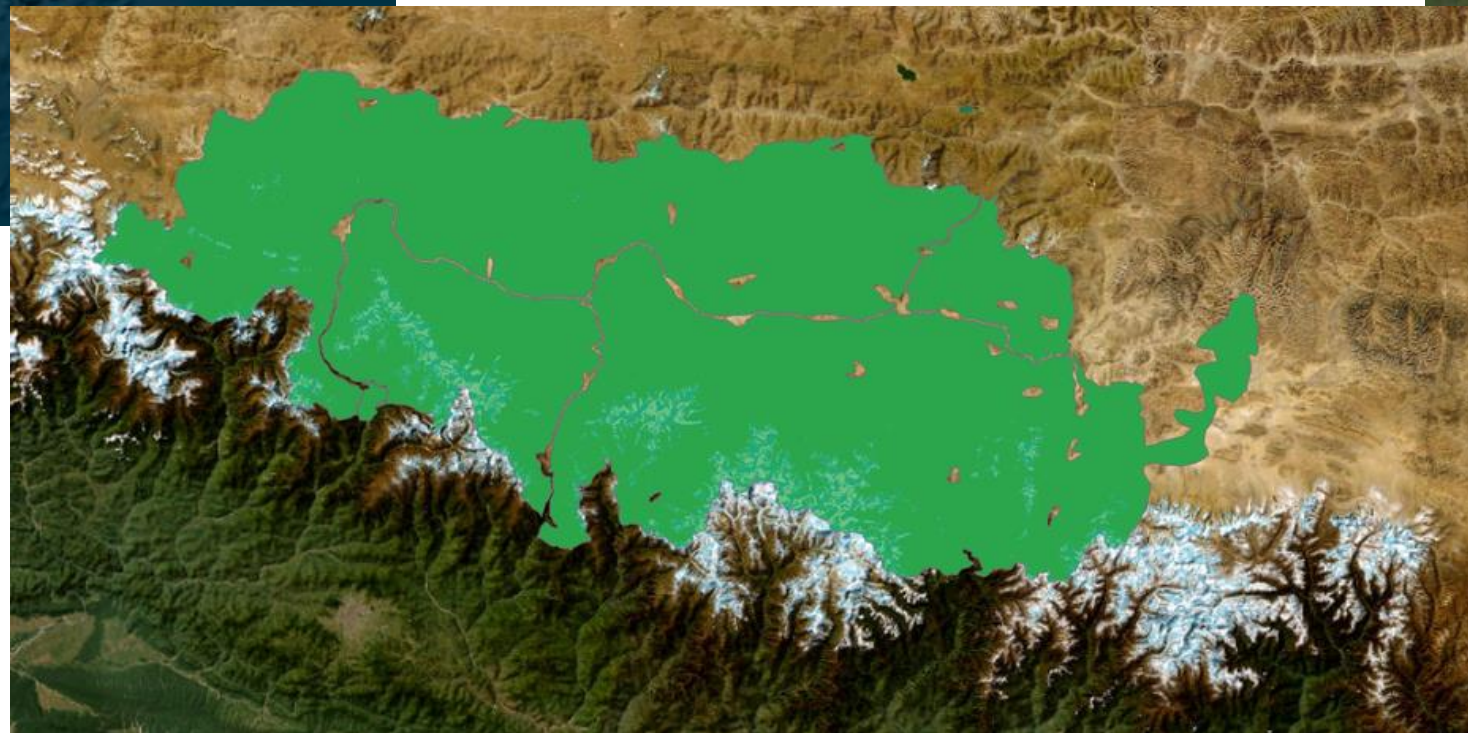
Glacier extent in Biosphere Reserves



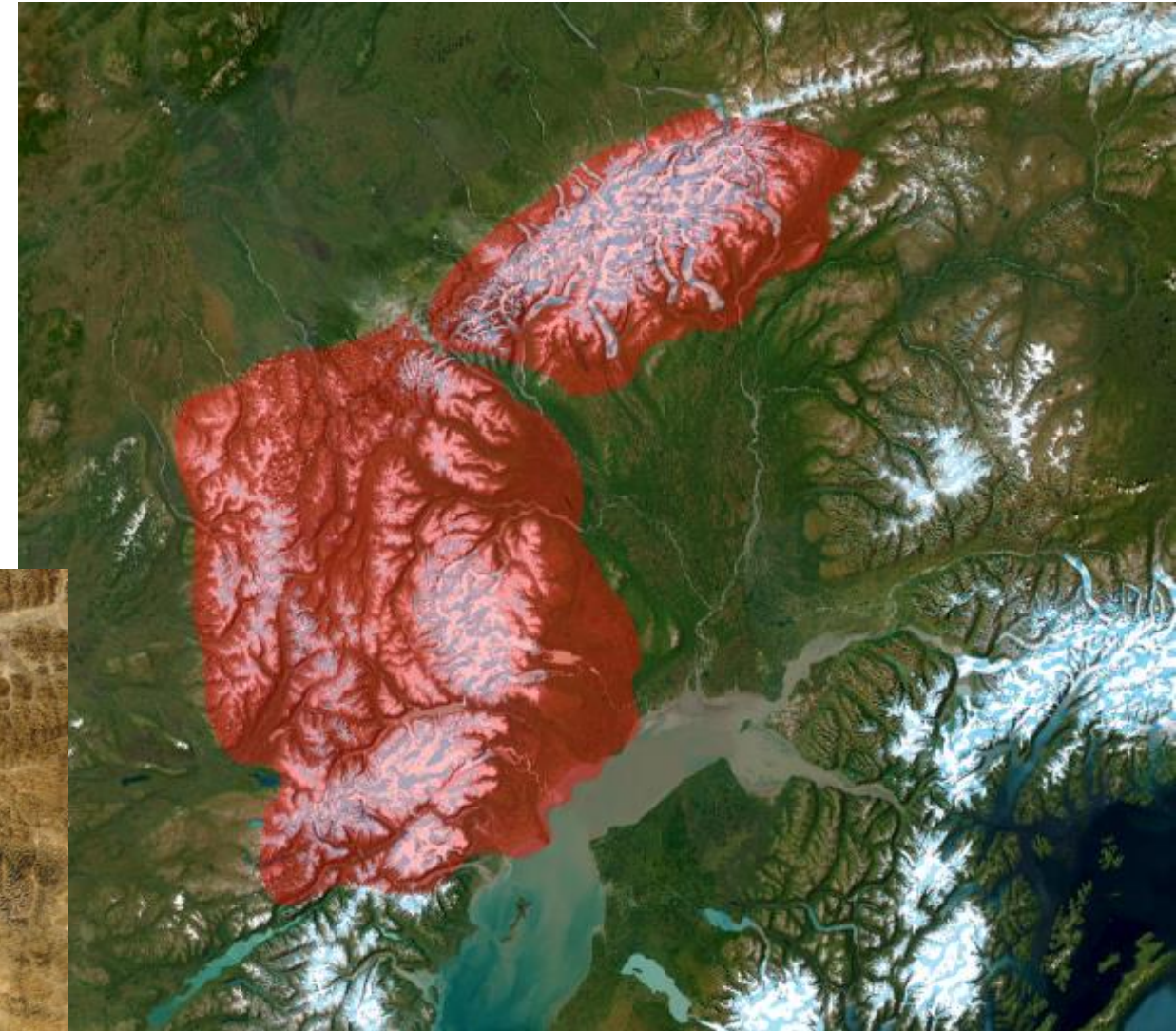
Glacier extent in Biosphere Reserves



Cabo Hornos (Chile)



Qomolangma
(China)



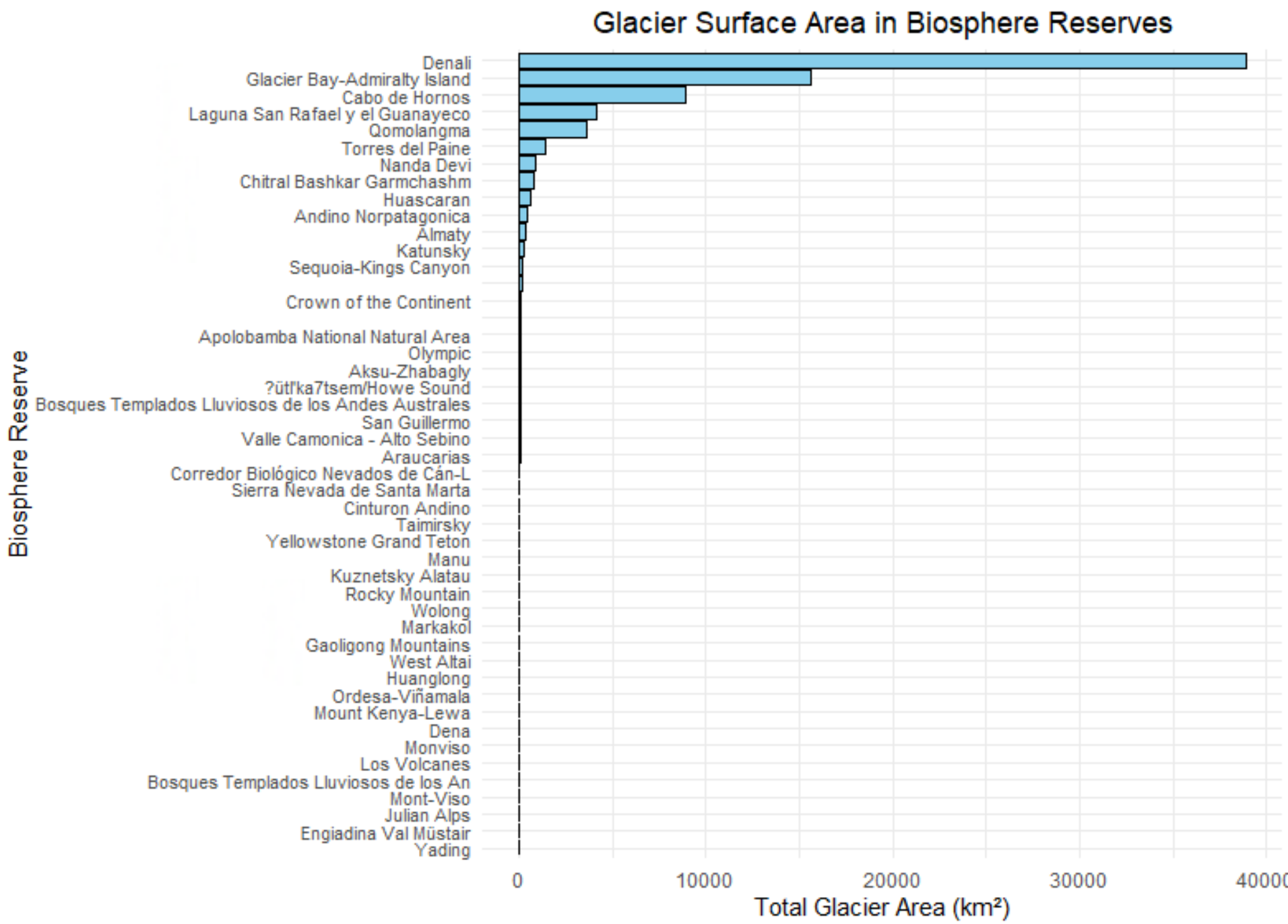
Denali
(USA)

Glacier extent in Biosphere Reserves

64 Mountain Biosphere Reserves with
Glaciers

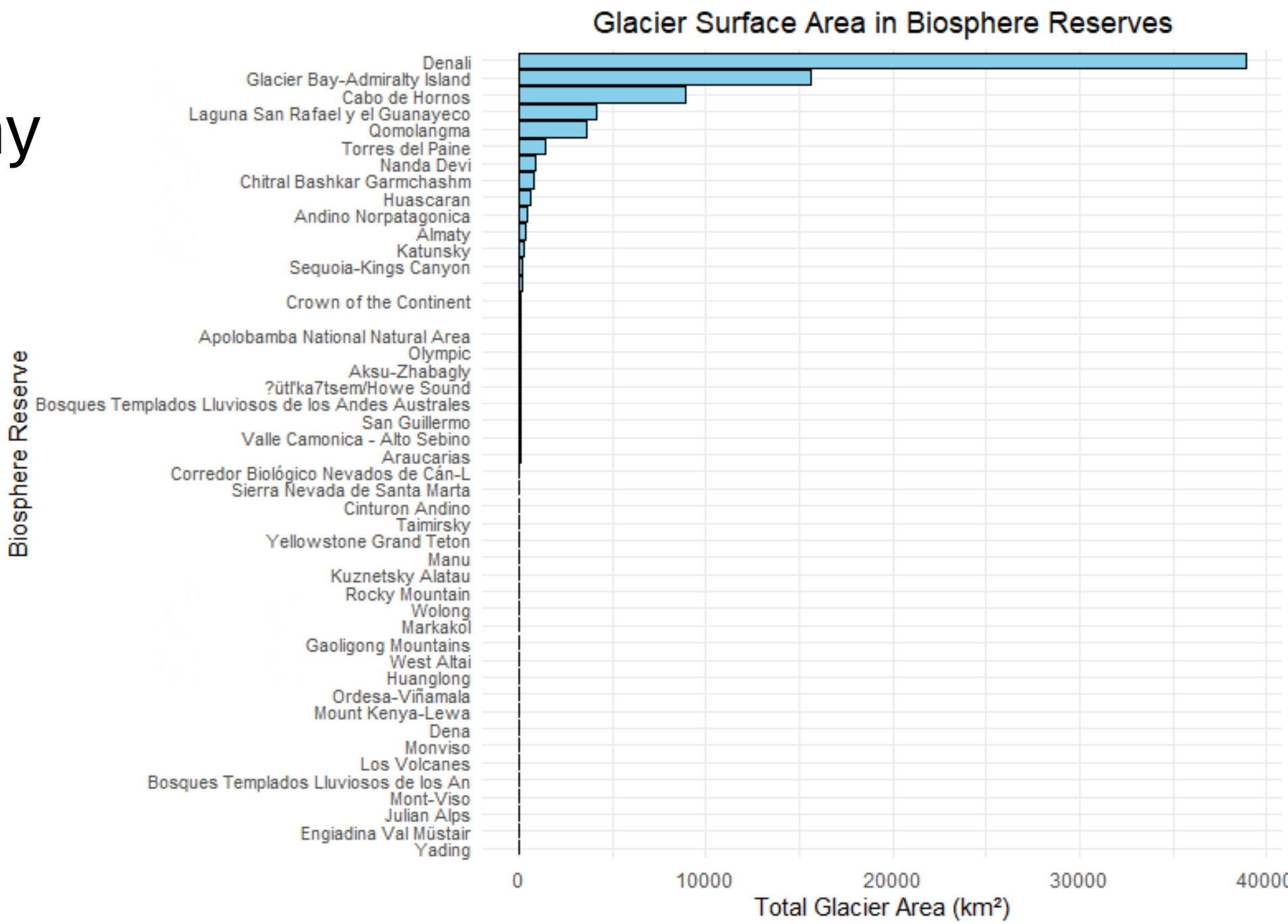
> 80.000 km² of Glaciers in Biosphere
Reserves

Some BR with cover up to 25% of
their total surface



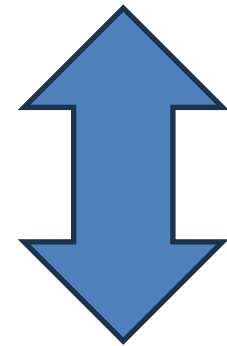
Glacier extent in Biosphere Reserves

Glaciers are a relevant ecosystem in many Biosphere Reserves

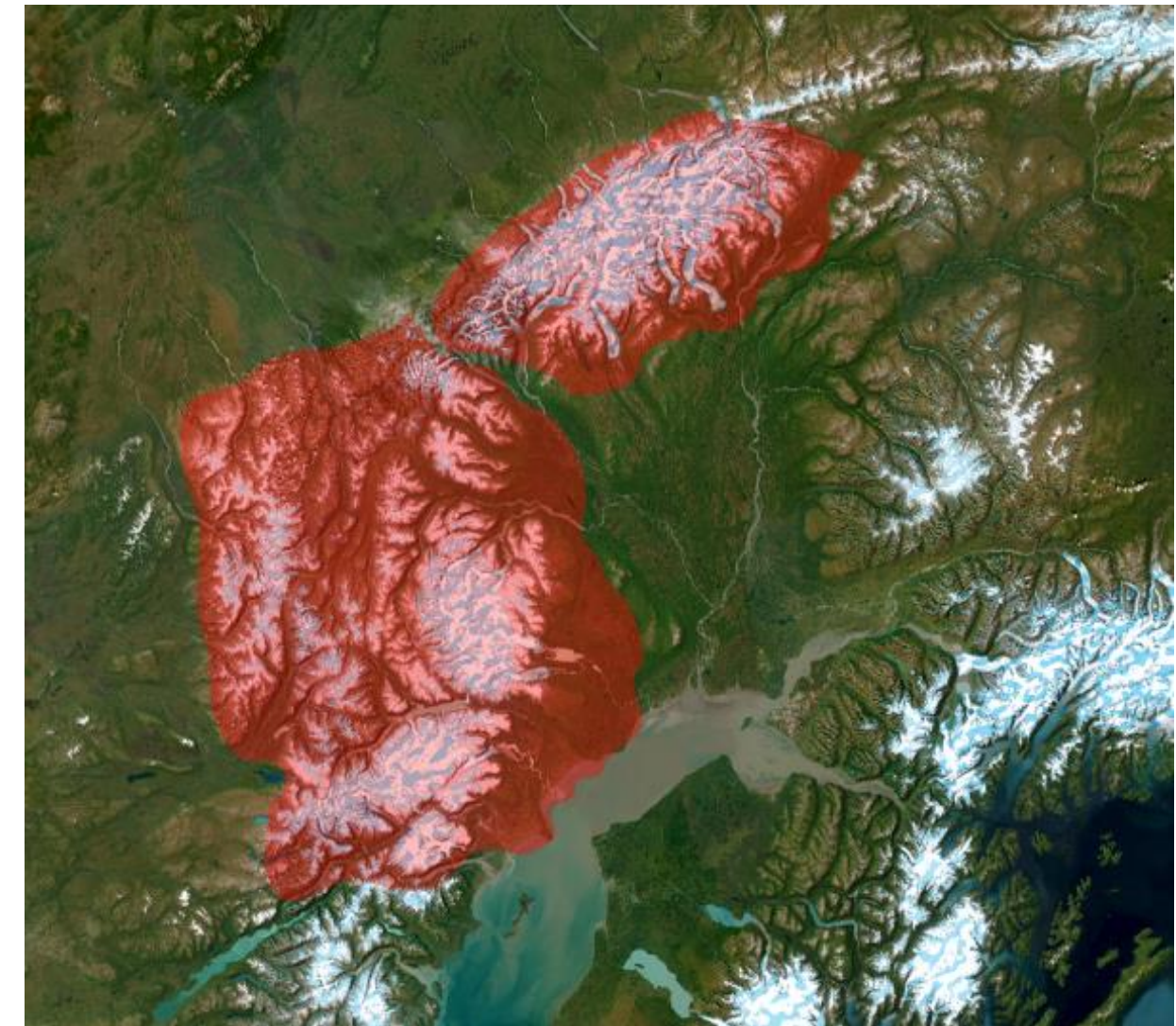


Glacier extent in Biosphere Reserves

Glaciers are a relevant ecosystem in many
Biosphere Reserves

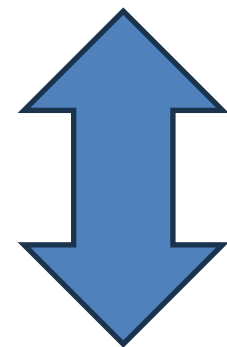


Biosphere Reserves are/ can be relevant for
many Glaciers



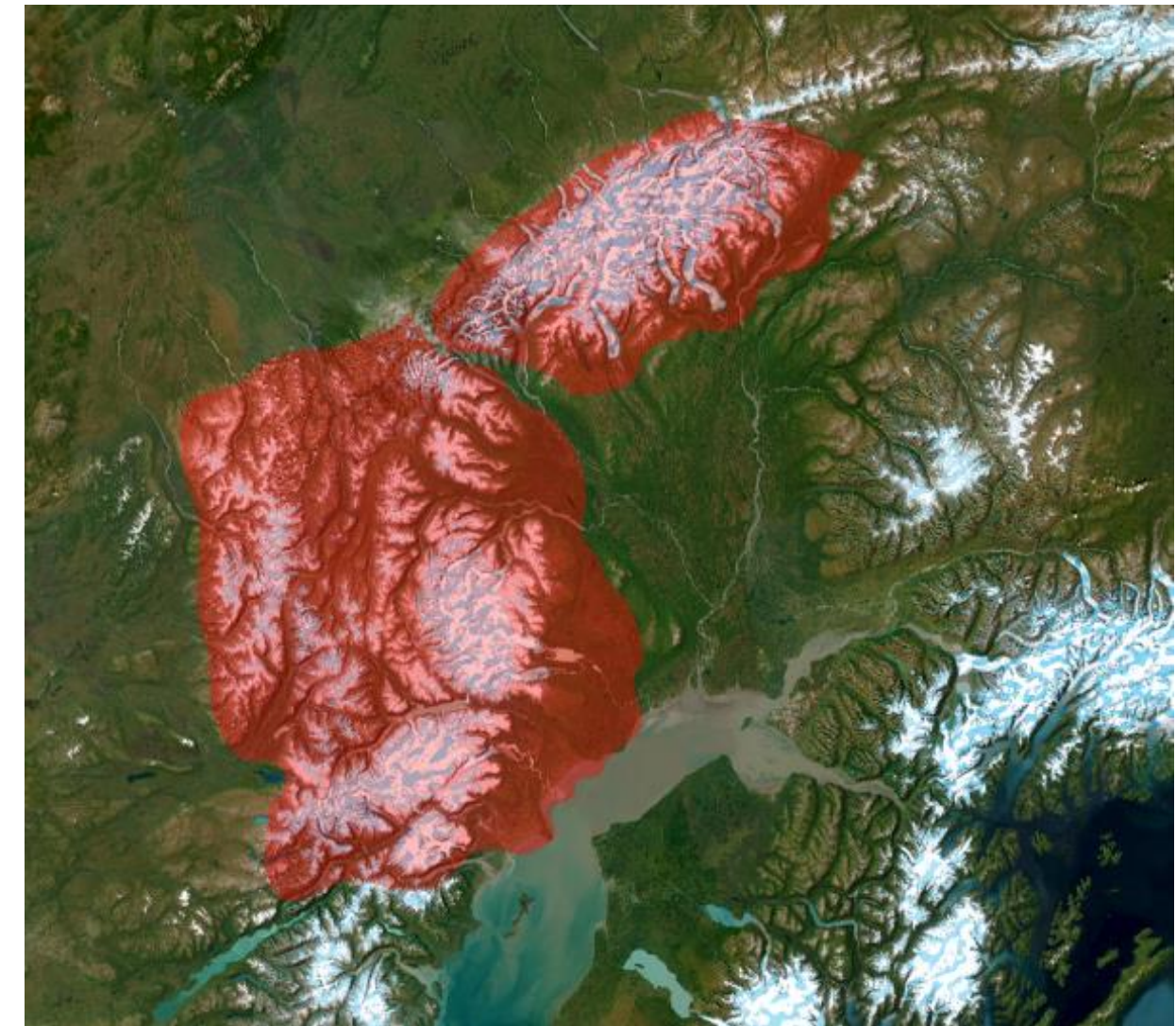
Glacier extent in Biosphere Reserves

Glaciers are a relevant ecosystem in many
Biosphere Reserves



Biosphere Reserves are/ can be relevant for
many Glaciers

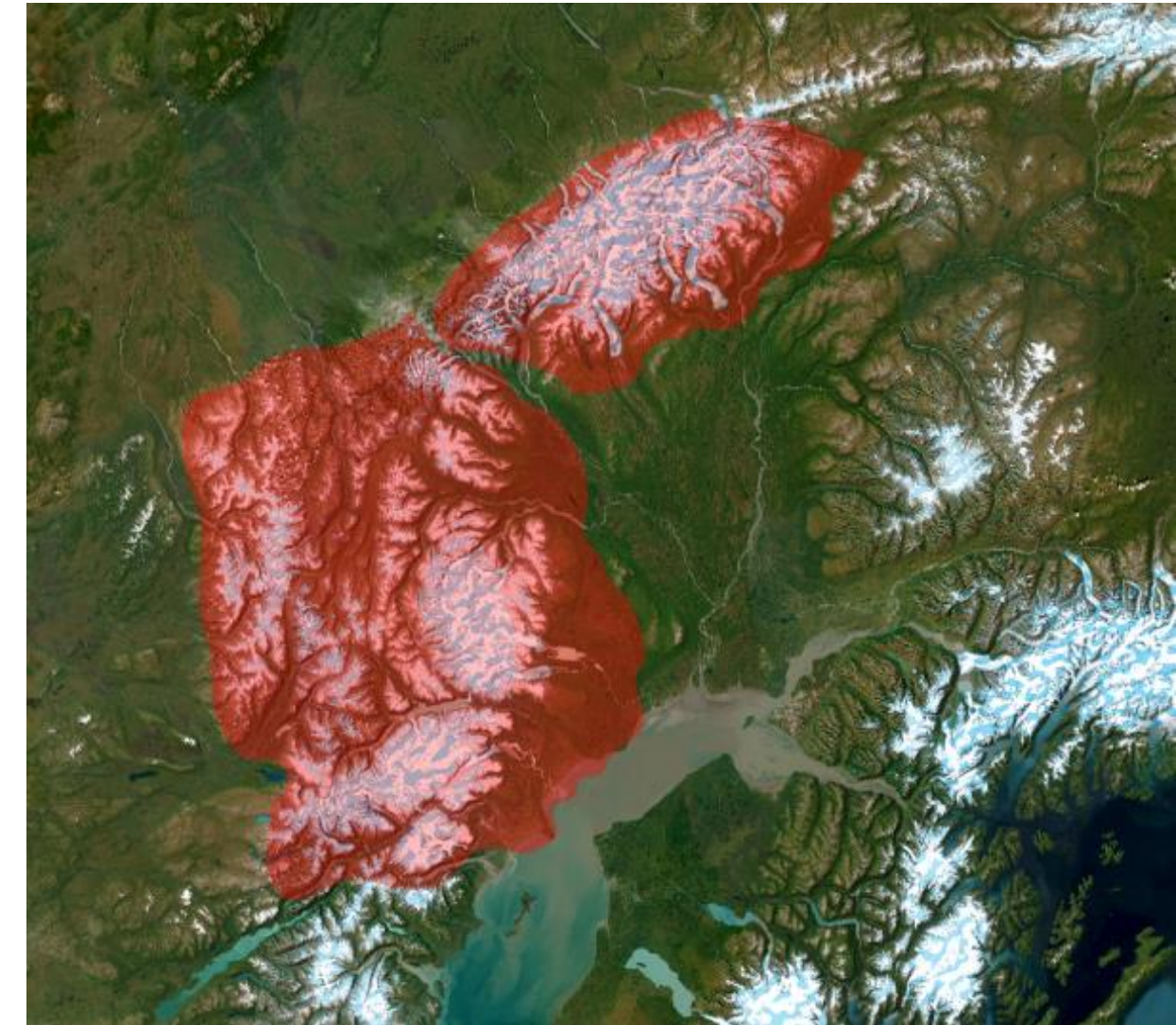
Monitoring, conservation and research sites



- Compare previous glacier inventories

Recently deglaciaded BR

- Estimate glacier extent compared to BR zonification (Core, Buffer and Transition)
- Monitor, gather data on mass balance change in BR
- Inventory of monitoring, conservation and research in BR





Thank you!

